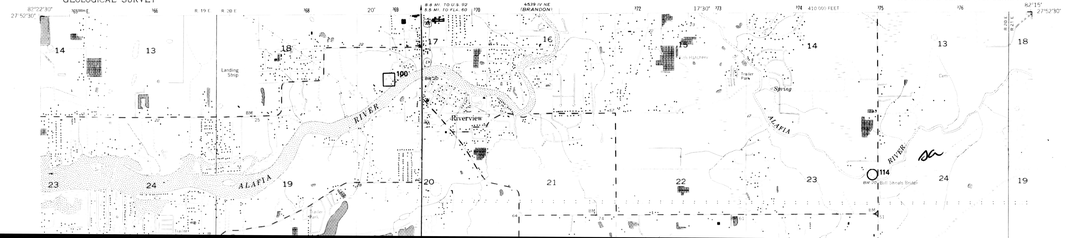
RESOLUTION RESOLUTION TEST CHART
L10
L11
L12
L13
L14
L15

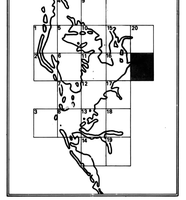
RESOLUTION RESOLUTION TEST CHART
L10
L11
L12
L13
L14
L15

I 49.89/2: 85(15) map B21

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RIVERVIEW QUADRANGLE
FLORIDA-HILLSBOROUGH CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)


Riverview
ALAFIA RIVER
ALAFIA RIVER
Spring
Landing Strip
Dam
Dam
Dam



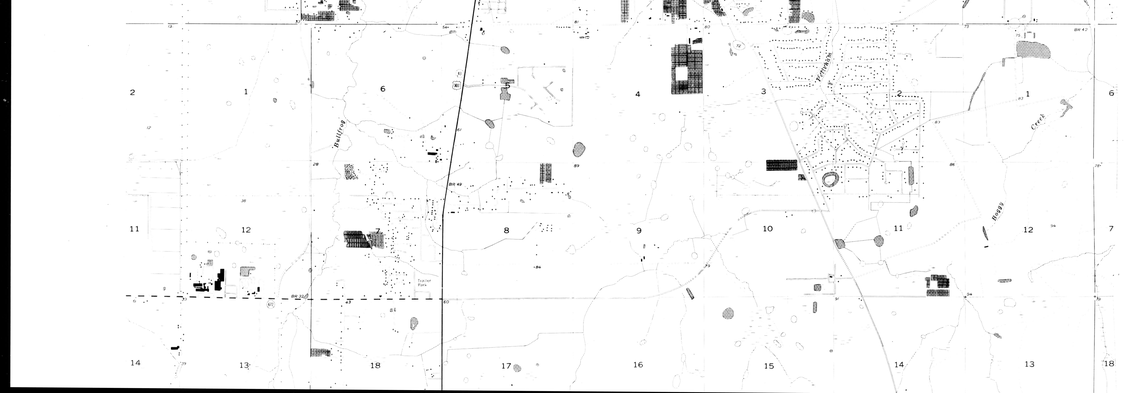
Scale 1:24,000

1984

TOPICAL MAPS IN THIS ATLAS:
A. BIOLOGICAL RESOURCES
B. WATER RESOURCES

Produced by U.S. Fish and Wildlife Service
Projection and 1,000 meter grid, zone 17 Universal Transverse Mercator
10,000 foot grid ticks based on Florida coordinate system, east and west zones

Overlay material compiled in 1984 from latest available data obtained from



Projection and 1,000 meter grid, zone 17: Universal Transverse Mercator
10,000-foot grid ticks based on Florida coordinate system, east and west zones

Overlay material compiled in 1984 from latest available data obtained from Federal, State and Local government agencies and other sources.

There is no map A19 due to a lack of data.

LEGEND

*****35***** MEAN ANNUAL MID-DEPTH SPECIFIC CONDUCTIVITY ISOPLETH (WATER QUALITY) CONTOUR MAP
Five year mean annual specific conductivity September 1978 - August 1983 (mmhos)

POINT SOURCE DISCHARGES *

▲10 Q= — Industrial Point Source Discharge. Q is permitted capacity in total gallons per day (tgd) or in millions of gallons per day (mgd).

△10 Q= — Municipal Point Source Discharge. Q is permitted capacity in total gallons per day (tgd) or millions of gallons per day (mgd).

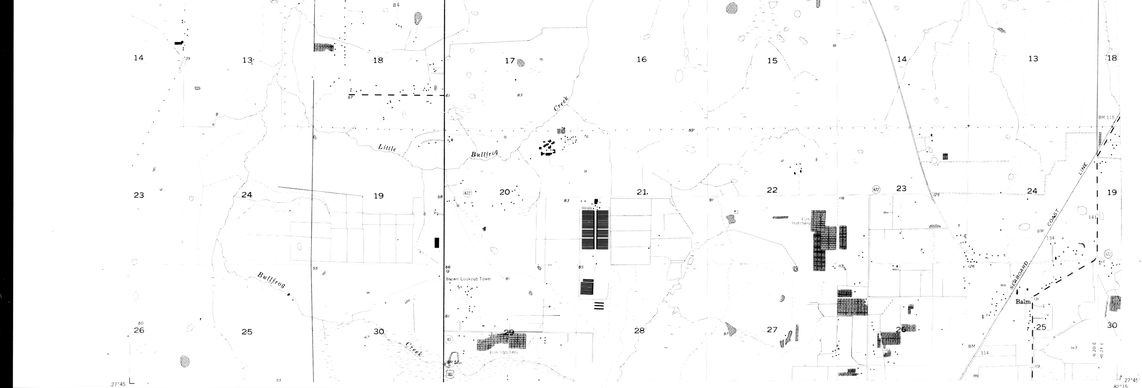
DREDGE SPOIL DISPOSAL SITES

TIDE STATION *
(National Ocean Service)

10 Active tide station. The tide station number is listed next to the symbol.

10 Inactive tide station location. The tide station number is listed next to the symbol.

WATER QUALITY SAMPLING STATION *
(Hillsborough County Environmental



TIDE STATION *
(National Ocean Service)

10 Active tide station. The tide station number is listed next to the symbol.

10 Inactive tide station location. The tide station number is listed next to the symbol.

WATER QUALITY SAMPLING STATION *
(Hillsborough County Environmental Protection Commission)
Five year seasonal means, Sept. 1978 - Aug. 1983

10

2 BATHYMETRY
The contour interval is 2.0 meters with an added 1.0 meter supplemental contour line. Dashed line define shoals and inshore tidal flats.

INTERTIDAL ZONE
This zone demarcates the area exposed and flooded by the tides and occurs between the line and the shore.

GENERALIZED SEDIMENT MAP
- Sand
- Shelly Sand
- Silty Sand
- Clayey Sand
- Sandy Clay
- Silt

NET TIDAL CURRENT
Resultant tidal current. The direction is indicated by the arrow and the discharge range is feet per second.
- 0.01 - 0.10 ft/sec
- 0.11 - 0.20 ft/sec
- 0.21 - 0.30 ft/sec
- 0.31 - 0.50 ft/sec
- >= 0.50 ft/sec

F FRESHWATER/SALTWATER INTERFACE

THE TAMPA BAY ENVIRONMENTAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE, DIVISION OF BIOLOGICAL SERVICES NATIONAL COASTAL ECOSYSTEMS TEAM, TO PROVIDE RESOURCE MANAGERS, PLANNERS, SCIENTISTS AND THE GENERAL PUBLIC, TO DETERMINE WHETHER/WHEN/WHERE CHANGE AND TO RESOLVE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE REQUIREMENTS, AND WATER QUALITY. THE ATLAS COVERS THE TAMPA BAY AREA, WHICH INCLUDES A MAJOR PORTION OF THE COASTAL COUNTIES OF PINELLAS, HILLSBOROUGH, MANATEE, AND A SMALL PORTION OF SARASOTA. THERE IS NO ATTEMPT, IN THE ATLAS, TO DEFINE THE LEGAL BOUNDARIES OF TAMPA BAY OR TO ASSERT THE JURISDICTION OF ANY FEDERAL/STATE, OR LOCAL GOVERNMENT TO ESTABLISH THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF GOVERNMENT AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS, INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE MANY SOURCES CONTAINED GENERALIZED LOCATIONS OF RESOURCES AND OTHER MAPPED DATA, THE USER IS CAUTIONED NOT TO USE THESE MAPS FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS.

PRIMARY SOURCES OF MAPPED INFORMATION

SALINITY: Conductivity for Tampa Bay water quality sampling stations Sept. 1979 - August 1983. Hillsborough County Environmental Protection Commission.

POINT SOURCE DISCHARGES: Computer printout of industrial and municipal point source discharges in West Central Florida. Florida Dept. of Environmental Regulation, 1983.

DREDGE SPOIL DISPOSAL AREAS: Dredge and fill and seagrass location maps. Florida Dept. of Natural Resources

N.O.S. TIDE STATIONS: Index of tide stations for the state of Florida. National Ocean Service, Rockville, Md. 1981

WATER QUALITY: Total chlorophyll, conductivity, turbidity, temperature and total nitrogen data for Tampa Bay water quality sampling stations Sept. 1979 - August 1983. Hillsborough County Environmental Protection Commission.

BATHYMETRIC: Bathymetric map in St. Petersburg Quadrangle. N.O.S. 1978

INTERTIDAL ZONE: Natural Chart # s 11410, 11413, 11414 and 11420, N.O.S., Rockville, Md. 1983

SEDIMENTS: Sediments, oceanographic observations and Floratec data for Tampa Bay, Florida and adjacent waters. 1961-1965. Taylor and Salomon, 1969

TIDAL CURRENTS: Changes in tidal flow, circulation and flushing caused by dredge and fill in Tampa Bay, Florida U.S. Geological Survey Open File Report #84-447. Goodwin, 1984

FRESHWATER/SALTWATER INTERFACE: Position of the Freshwater - Saltwater interface in the upper part of the Floridan aquifer. Southwest Florida. 1978. U.S.G.S. water resources open-file report 82-90. Causaseus and Fretwell, 1982.

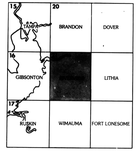
FOR COMPLETE REFERENCE SEE MAP NARRATIVE

SCALE 1:24 000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 0 1 2 3 4 5 6 KILOMETER

1 MILE



Note: Specific conductivity values on the supplemental legend should be in gmhos.

Supplemental Legend for Water Quality Stations on This Map

Station #114 Lat. 27°57'22" Long. 82°18'11"

PARAMETER	SPRING (3-5)	SUMMER (6-8)	FALL (9-11)	WINTER (12-2)	ANNUAL (1-12)
Total Chlorophyll (ug/l)	No Data	No Data	No Data	0.0	—
Conductivity (mmhos)	533	462	573	551	530
Turbidity (JTU's)	3.0	5.0	3.0	2.0	3.0
Temperature (°C)	22.2	29.1	23.0	16.9	22.1
Total Nitrogen (mg/l)	2.01	1.91	2.63	2.29	2.36

Station #122 Lat. 27°53'24" Long. 82°20'50"

PARAMETER	SPRING (3-5)	SUMMER (6-8)	FALL (9-11)	WINTER (12-2)	ANNUAL (1-12)
Total Chlorophyll (ug/l)	13.7	11.5	14.9	13.5	13.2
Conductivity (mmhos)	391	346	437	425	396
Turbidity (JTU's)	4.0	13.5	6.1	5.5	6.5
Temperature (°C)	20.5	29.4	22.5	14.9	22.1
Total Nitrogen (mg/l)	1.14	1.41	1.24	1.01	1.20

- → 0.01 - 0.10 ft/sec
- → 0.11 - 0.20 ft/sec
- → 0.21 - 0.30 ft/sec
- → 0.31 - 0.50 ft/sec
- → >= 0.50 ft/sec

FRESHWATER/SALTWATER INTERFACE

(U.S. Geological Survey 1979)
250 mg/l ion of equal chloride concentration in the upper part of Floridan aquifer

**Symbols appearing with numbers are described more fully in the narrative*

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